

AMENDMENTS TO THE CLAIMS

Claims 1-23 (Cancelled)

24. (New) A method, performed by a computer hardware system, of managing a set of processes and a set of resources within the computer hardware system, comprising:

identifying, from the set of processes within the computer hardware system, a plurality of lagging processes;

identifying, from the set of resources within the computer hardware system, a plurality of available resources that are available for use by the plurality of lagging processes;

calculating, for a particular one of the plurality of lagging processes, a calculated benefit to be realized upon a particular one of the plurality of available resources being assigned to the particular one of the plurality of lagging processes;

comparing the calculated benefit for the particular one of the plurality of lagging processes with other calculated benefits for others of the plurality of lagging processes being assigned the particular one of the plurality of available resources; and

assigning, within the computer hardware system and based upon the comparing, the particular one of the plurality of available resources to a selected one of the lagging processes.

25. (New) The method of claim 24, wherein

the selected one of the lagging processes is a most responsive process to the particular one of the plurality of available resources.

26. (New) The method of claim 24, further comprising
executing the selected one of the lagging processes using the particular one of the
plurality of available resources.

27. (New) The method of claim 24, further comprising
identifying, from the set of processes within the computer hardware system, an
accelerated process; and
reassigning a resource, from the accelerated process, to the selected one of the lagging
processes.

28. (New) The method of claim 24, wherein
the calculating is based upon a benefit knowledge database.

29. (New) The method of claim 24, wherein
the calculated benefit for the particular one of the plurality of lagging processes includes
a calculated saved time between

(i) the particular one of the plurality of lagging processes being assigned the
particular one of the available resources, and

(ii) the particular one of the plurality of lagging processes not being assigned the
particular one of the available resources.

30. (New) A computer hardware system for managing a set of processes and a set of
resources within the computer hardware system, comprising:

at least one processor, the at least one processor including

a process module configured to identify, from the set of processes within the computer hardware system, a plurality of lagging processes;

a resource module configured to identify, from the set of resources within the computer hardware system, a plurality of available resources that are available for use by the plurality of lagging processes;

a benefit module configured to calculate, for a particular one of the plurality of lagging processes, a calculated benefit to be realized upon a particular one of the plurality of available resources being assigned to the particular one of the plurality of lagging processes;

an allocation module configured to

perform a comparison between the calculated benefit for the particular one of the plurality of lagging processes and other calculated benefits for others of the plurality of lagging processes being assigned the particular one of the plurality of available resources; and

assigning, within the computer hardware system and based upon the comparison, the particular one of the plurality of available resources to a selected one of the lagging processes.

31. (New) The computer hardware system of claim 30, wherein the selected one of the lagging processes is a most responsive process to the particular one of the plurality of available resources.

32. (New) The computer hardware system of claim 30, wherein
the at least one processor includes an execution module configured to execute the
selected one of the lagging processes using the particular one of the plurality of available
resources.

33. (New) The computer hardware system of claim 30, wherein
the process module is configured to identify, from the set of processes within the
computer hardware system, an accelerated process; and
the allocation module is configured to reassign a resource, from the accelerated process,
to the selected one of the lagging processes.

34. (New) The computer hardware system of claim 30, further comprising
a benefit knowledge database, wherein
the benefit module is coupled to the benefit knowledge database and calculates the
calculated benefit utilizing the benefit knowledge database.

35. (New) The computer hardware system of claim 30, wherein
the calculated benefit for the particular one of the plurality of lagging processes includes
a calculated saved time between

(i) the particular one of the plurality of lagging processes being assigned the
particular one of the available resources, and

(ii) the particular one of the plurality of lagging processes not being assigned the
particular one of the available resources.

36. (New) A computer-readable storage medium having stored therein computer usable program code for managing a set of processes and a set of resources within a computer hardware system, the computer usable program code, when executed by the computer hardware system, causing the computer hardware system to perform:

identifying, from the set of processes within the computer hardware system, a plurality of lagging processes;

identifying, from the set of resources within the computer hardware system, a plurality of available resources that are available for use by the plurality of lagging processes;

calculating, for a particular one of the plurality of lagging processes, a calculated benefit to be realized upon a particular one of the plurality of available resources being assigned to the particular one of the plurality of lagging processes;

comparing the calculated benefit for the particular one of the plurality of lagging processes with other calculated benefits for others of the plurality of lagging processes being assigned the particular one of the plurality of available resources; and

assigning, within the computer hardware system and based upon the comparing, the particular one of the plurality of available resources to a selected one of the lagging processes.

37. (New) The computer-readable storage medium of claim 36, wherein the selected one of the lagging processes is a most responsive process to the particular one of the plurality of available resources.

38. (New) The computer-readable storage medium of claim 36, further comprising

executing the selected one of the lagging processes using the particular one of the plurality of available resources.

39. (New) The computer-readable storage medium of claim 36, further comprising identifying, from the set of processes within the computer hardware system, an accelerated process; and

reassigning a resource, from the accelerated process, to the selected one of the lagging processes.

40. (New) The computer-readable storage medium of claim 36, wherein the calculating is based upon a benefit knowledge database.

41. (New) The computer-readable storage medium of claim 36, wherein the calculated benefit for the particular one of the plurality of lagging processes includes a calculated saved time between

(i) the particular one of the plurality of lagging processes being assigned the particular one of the available resources, and

(ii) the particular one of the plurality of lagging processes not being assigned the particular one of the available resources.